CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 15.01.2019

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.
NAME OF THE ROAD	:	Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	395 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date : 15.01.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Woark : Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.

Name of Work : Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 15.01.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	143	14.30	21.80	78.2	75-100
1.18	152	15.20	37.00	63.0	55-90
600 Micron	248	24.80	61.80	38.2	35-59
300 Micron	154	15.40	77.20	22.8	8-30
150 Micron	143	14.30	91.50	8.5	0-10

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Name of Work : Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 15.01.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	143	14.30	21.80	78.2	75-100
1.18	152	15.20	37.00	63.0	55-90
600 Micron	248	24.80	61.80	38.2	35-59
300 Micron	154	15.40	77.20	22.8	8-30
150 Micron	143	14.30	91.50	8.5	0-10

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date : 15.01.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Woark : Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.

Name of Work : Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 15.01.2019

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	154	1.03	1.03	98.97	95-100
20	8236	54.91	55.93	44.07	30-70
10	3415	22.77	78.70	21.30	10-35
4.75	2635	17.57	96.27	3.73	0-5

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date : 15.01.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Woark : Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.

Name of Work : Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 15.01.2019

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	156	3.1	3.1	96.9	95-100
10	2634	52.7	55.8	44.2	25-55
4.75	1876	37.5	93.3	6.7	0-10

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 01.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	01.02.2019	8.126	325.6	14.47
2	25.01.2019	01.02.2019	8.134	334.8	14.88
3	25.01.2019	01.02.2019	8.142	342.7	15.23

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 22.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	22.02.2019	8.259	526.3	23.39
2	25.01.2019	22.02.2019	8.236	514.8	22.88
3	25.01.2019	22.02.2019	8.247	498.7	22.16

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 01.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
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Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	01.02.2019	8.124	325.6	14.47
2	25.01.2019	01.02.2019	8.135	345.2	15.34
3	25.01.2019	01.02.2019	8.148	358.9	15.95

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Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	22.02.2019	8.247	524.6	23.32
2	25.01.2019	22.02.2019	8.263	512.4	22.77
3	25.01.2019	22.02.2019	8.251	498.7	22.16

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	22.02.2019	8.247	526.3	23.39
2	25.01.2019	22.02.2019	8.263	508.9	22.62
3	25.01.2019	22.02.2019	8.251	496.5	22.07

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 12.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	12.02.2019	8.122	325.6	14.47
2	05.02.2019	12.02.2019	8.136	332.9	14.80
3	05.02.2019	12.02.2019	8.147	342.7	15.23

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 12.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	12.02.2019	8.134	327.6	14.56
2	05.02.2019	12.02.2019	8.145	338.4	15.04
3	05.02.2019	12.02.2019	8.129	342.5	15.22

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	12.02.2019	8.128	325.6	14.47
2	05.02.2019	12.02.2019	8.163	342.8	15.24
3	05.02.2019	12.02.2019	8.152	336.2	14.94

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Name of the Road : Construction drain and Concrete Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	12.02.2019	8.127	325.9	14.48
2	05.02.2019	12.02.2019	8.136	332.5	14.78
3	05.02.2019	12.02.2019	8.152	352.4	15.66

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.02.2019	12.02.2019	8.124	325.6	14.47
2	05.02.2019	12.02.2019	8.136	334.8	14.88
3	05.02.2019	12.02.2019	8.145	342.5	15.22

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